

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Repairers, Powerhouse, Substation, and Relay \(49-2095\)](#)

Associated Occupation: [Electronics Engineers, Except Computer \(17-2072\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 66

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Engineering and Technology	5.7	20.8	9.3	<<	Extensive education and/or training may be required
Design	5.2	20.6	13.2	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	19.7	12.2	<<	Extensive education and/or training may be required
Mathematics	9.2	16.8	12.2	<<	Extensive education and/or training may be required
Physics	4.3	11.6	10.1	<	Expanded education and/or training may be required
Production and Processing	6.0	11.1	4.2	<<	Extensive education and/or training may be required
Mechanical	6.8	9.9	17.1	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	7.2	10.0	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 48

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Systems Analysis	6.5	12.5	6.6	<<	Extensive development of skills in this area may be required

Quality Control Analysis	5.9	11.1	10.2	0	Current skill level may be sufficient
Systems Evaluation	6.4	10.7	6.6	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	10.0	10.7	0	Current skill level may be sufficient
Equipment Selection	3.3	9.0	5.6	<<	Extensive development of skills in this area may be required
Repairing	3.4	8.6	11.1	>	Skill level is likely sufficient
Programming	2.2	8.1	2.8	<<	Extensive development of skills in this area may be required
Technology Design	2.6	8.1	2.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electronics Engineers, Except Computer (17-2072)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	14.5	10.6	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	13.3	10.7	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	12.8	7.1	<<	Extensive improvement in abilities may be required
Category Flexibility	9.0	11.6	7.9	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.0	10.1	0	Current ability level may be sufficient
Originality	7.6	10.7	7.3	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.7	9.3	<	Some improvement in abilities may be required
Selective Attention	8.7	10.3	10.0	0	Current ability level may be sufficient
Memorization	5.6	7.6	6.8	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 55
Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electronics Engineers, Except Computer (17-2072)		
Work Activities	Exclusivity of Activity	
Analyze test data	64	

Prepare reports	8
Read blueprints	10
Read schematics	34
Read technical drawings	7
Use electrical or electronic test devices or equipment	40

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.